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DEPARTMENT OF EDUCATION

*Working Together for Student Success*

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Indiana Department of Education  
Data Exchange Vendor Certification Process  
Release V2.4.2

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## OVERVIEW

As part of Indiana Department of Education (IDOE) LINK initiative, the Data Exchange implements a solution to improve the transfer and certification of student and educator-level data between the IDOE and education entities. By adopting the Ed-Fi Data Standards and Technology Suite as the foundation of this project, schools will be able to connect their Student Information Systems (SIS) to an IDOE database and seamlessly transfer data to the IDOE.

The Vendor Certification process ensures that systems used by Indiana educational organizations align to the State requirements. The information provided in this document is targeted to help vendors integrate and certify with IDOE's Ed-Fi ODS API and Identities API implementations.

## GENERAL EXPECTATIONS

Vendors supporting IDOE education organizations should plan to certify to all requirements defined within the Vendor Certification Scenario documents. This includes both API components within the IDOE implementation:

- IDOE Identities API Supports the creation and update of student and educator identifiers (STN and SPN) in the IDOE Master Data Management (MDM) strategy. An Identity must be in the MDM to be submitted to the ODS in production.
- IDOE Ed-Fi ODS API Supports the integration of student and educator records and the IDOE Operational Data Store (ODS).

Vendors supporting IDOE directly or partner State agencies may only certify to the Identities API as needed. For these vendors, "Identities Only" will be noted on the status.

## VENDOR RESOURCES

Vendor resources are available on the IDOE Data Exchange site at <https://www.doe.in.gov/link/data-exchange>. Resources include the following:

- IDOE Ed-Fi ODS and Identities Swagger <https://dataexchangevendor.doe.in.gov/swagger/>
- IDOE Ed-Fi XML Schema
- IDOE Ed-Fi ODS SDK v2.4
- Vendor Certification Scenarios
- IDOE to Ed-Fi ODS/API v2.x Mapping Report

## STATE CERTIFICATION PROCESS

### Prerequisites

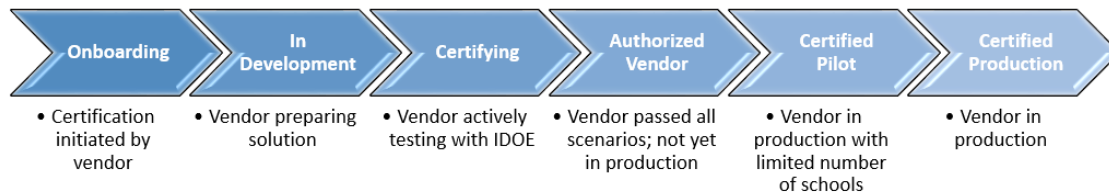
The following are recommended for vendors prior to starting the IDOE certification process.

- Review Ed-Fi technical documentation.
- Obtain an Ed-Fi license. While not required, this is highly recommended.

- Developers should be familiar with RESTful services and HTTP authentication.
- Review Ed-Fi Certification documentation. The Indiana DOE state certification requirements are closely aligned to the Ed-Fi certification process, with the addition of state-defined extensions and some differences in required resources.

## Certification Phases

### *Certification Process*



As vendors step through the certification process, their progress will be captured in a series of statuses. To promote transparency to school, the statuses will be displayed on the IDOE Data Exchange site. These phases are as follows:

#### 1. **Onboarding**

- a. Vendors should provide a letter of intent to certify to the IDOE Data Exchange requirements to initiate the onboarding, including estimated timelines.
- b. IDOE will provide keys and secrets for a shared vendor sandbox.
- c. Shared vendor API access: <https://dataexchangevendor.doe.in.gov/api/>

#### 2. **In Development**

- a. During this phase, vendors will be preparing their solution.
- b. Vendors may request clarification meetings with the IDOE as needed.

#### 3. **Certifying**

- a. Vendors should provide notice when ready to certify.
- b. IDOE will review use case data submitted by the vendor in the shared vendor database. Clarification and resubmission may be required before approval to proceed.
- c. Once initial scenarios are approved, the vendor will proceed to the vendor certification environment. Vendors will partner with a pilot school or school corporation to send full data sets to the certification environment.
- d. IDOE will provide a key and secret to the partnering school for the certify environment.
- e. Vendor certify API access: <https://dataexchangeverify.doe.in.gov/api/>
- f. Certification sessions will be completed via online meetings including IDOE, school representatives, relevant vendor staff.
- g. The school will be asked to screen share to allow IDOE to see the source data as it is stored in the UI compared to the data in the ODS.
- h. Vendor certification rounds will continue until all scenarios are executed successfully.

**4. Authorized Vendor**

- a. Once certified, the vendor will be added as an authorized vendor
- b. Production key and secret credentials will be provided for the certifying partnering school or school corporation.
- c. Vendor certify API access: <https://dataexchange.doe.in.gov/api/>
- d. This status indicates the vendor had passed all scenarios, and is in production with a school or school corporation.

**5. Certified Pilot**

- a. Vendors supporting multiple schools or school corporations type will be asked to release to production a limited number of each entity type as a certified pilot.
- b. This status indicates the vendor had passed all scenarios, is in production with at least one school or school corporation, and is on-boarding additional entity types.

**6. Certified Production**

- a. Vendor is fully certified and in production.

**Error Handling During the Certification**

- During the certification process, any issues that arise due to any technical reasons on the vendor side or on IDOE side that cannot be resolved within a reasonable amount of time will warrant the certification meeting to be rescheduled.
- If issues arise during certification with resources having no dependency, the session and certification process may continue. If blocking errors occur, the session will conclude and a follow up meeting scheduled.

**ADDITIONAL ED-FI RESOURCES****Ed-Fi Data Standard v2.0.1**

<https://techdocs.ed-fi.org/display/EFDS20/Ed-Fi+Data+Standard+v2.0>

**Ed-Fi Data Standard v2.0.1 API Design & Implementation Guidelines**

<https://techdocs.ed-fi.org/pages/viewpage.action?pageId=39912596>

**Ed-Fi API v2.4 Client Developers' Guide**

<https://techdocs.ed-fi.org/display/ODSAPI24/API+Client+Developers%27+Guide>

**Ed-Fi Tracker – How to Submit an Issue to the Ed-Fi Alliance**

<https://techdocs.ed-fi.org/display/ETKB/How+to%3A+Submit+an+Issue>

**Ed-Fi API v2 SIS Certification**

<https://techdocs.ed-fi.org/display/EDFICERT/Ed-Fi+Student+Information+Systems+API+v2+Certification>

